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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/615,305	07/13/2000	Wolfgang Meier	BioCure 101	4801
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Norcross, GA			ART UNIT	PAPER NUMBER
			1615	6
			DATE MAILED: 12/05/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No.

Applicant(s) 09/615,305

Meier

Gollamudi S. Kishore, Ph.D.

Art Unit



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on *Oct 19, 2001* 2a) This action is **FINAL**. 2b) X This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 1-28 is/are pending in the application. 4a) Of the above, claim(s) <u>22-26</u> is/are withdrawn from consideration. 5) Claim(s) 6) X Claim(s) <u>1-21, 27, and 28</u> is/are rejected. 7) Claim(s) ______ is/are objected to. are subject to restriction and/or election requirement. 8) Claims ___ **Application Papers** 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are objected to by the Examiner. 11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved. 12) \square The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) \square All b) \square Some* c) \square None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 15) X Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s). 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) Notice of Informal Patent Application (PTO-152) 17) X Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 and 4 20) Other:

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DETAILED ACTION

1. Applicant's election with traverse of group II in Paper No. 5 is acknowledged. The traversal is on the ground(s) that would not be undue hardship. This is not found persuasive because for restriction purposes the examiner is required to show one way distinctiveness between the groups and this has been done so by the examiner. Furthermore, the examiner also established the differences in the classification of the groups.

The requirement is still deemed proper and is therefore made FINAL.

Upon consideration however, the groups I and II have been combined.

Claims included in the prosecution are 1-21 and 27-28.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what applicant intends to convey by 'a molecule'. What molecule? How can one incorporate just one molecule?

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 97/49387 of record.

WO discloses nanoparticles containing vesicles. The vesicles are made of amphiphilic triblock copolymers. Either the core domain or the shell domain is hydrophilic. The polymerization is achieved photochemically. The nanoparticles further containing a pharmaceutically active agent (note the abstract, pages 4-5. 64, 72, 87, and claims).

6. Claims 1, 3-11, 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 0 552 802 of record.

EP discloses micelles made from a diblock copolymer (note the abstract, Examples and claims)

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

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7. Claims 1-2, 10, 12, 17 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Pluyter (6,008,184).

Pluyter discloses vesicles containing triblock polymers A-B-A wherein A is water soluble polymer and B is water insoluble polymer (note col 2, line 25 et seq., col. 5, lines 51-55, col. 14, lines 61-62).

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claims 1-2, 10, 12, 17 and 19 are rejected under 35 U.S.C. 102(a) as being anticipated by Martin (5,891,468).

Martin discloses liposomes (nanocapsules) made from triblock polymers. The liposomes carry targeting ligand such as folic acid (note the abstract, figures, columns 7-11, examples and claims).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-20 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 97/49387 by itself or in combination with Martin cited above.

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WO, although teaches both di and tri block polymers, does not provide specific examples of the preparation of the nanoparticles using the triblock polymers. However, it is deemed obvious to one of ordinary skill in the art to prepare the nanoparticles from triblock polymer since WO provides guidance for such a preparation. One of ordinary skill in the art would be motivated further to use triblock polymers in the preparation of the nanoparticles from the guidance also provided by Martin. The use of targeting ligand in WO is deemed obvious to one of ordinary skill in the art since these ligands would target the composition to the desired sites in the body. One of ordinary skill in the art would be motivated further to include a targeting ligand such as folic acid in WO since Martin shows its routine use in vesicle preparations containing triblock polymers.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to G.S. Kishore whose telephone number is (703) 308-2440.

The examiner can normally be reached on Monday-Thursday from 6:30 A.M. to 4:00 P.M. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T.K. Page, can be reached on (703)308-2927. The fax phone number for this Group is (703)305-3592.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [thurman.page@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)308-1235.

Gollamudi S. Kishore, Ph. D

/ Shower

Primary Examiner

Group 1600

gsk

November 29, 2001